

## CLAIMS

1. A vehicle integrated control system comprising:
  - a plurality of control units (PT, ECB, STR) controlling a running state of a vehicle based on a manipulation request; and
    - 5 a processing unit generating information to be used at said control unit (PT, ECB, STR) and providing the generated information to each said control unit (PT, ECB, STR); wherein
      - 10 said processing unit includes a calculation unit for calculating information related to a control target to manipulate an actuator set in correspondence with each said control unit (PT, ECB, STR) based on environmental information around said vehicle and said manipulation request, and calculating information for allotting a driving force and a braking force in said control unit (PT, ECB, STR), based on information related to said calculated control target.
  - 15 2. The vehicle integrated control system according to claim 1, wherein said calculation unit calculates said information with priority being placed on a time for attaining said control target.
  - 20 3. The vehicle integrated control system according to claim 1, wherein said calculation unit calculates said information with priority being placed on drivability.
  - 25 4. The vehicle integrated control system according to claim 1, wherein said calculation unit calculates said information with priority being placed on energy efficiency of said vehicle.
  5. The vehicle integrated control system according to claim 1, wherein

said environmental information represents information on surroundings of the vehicle at present.

6. The vehicle integrated control system according to claim 1, wherein  
5 said environmental information represents information on surroundings of the vehicle in future.

7. The vehicle integrated control system according to claim 1, wherein  
10 said environmental information represents information on an acceleration/deceleration state of said vehicle.

8. The vehicle integrated control system according to claim 1, wherein  
15 said environmental information represents information sensed by a navigation device.

9. The vehicle integrated control system according to claim 1, wherein  
15 said environmental information represents information sensed by a radar device.

10. The vehicle integrated control system according to any one of claims 1 to 8,  
20 wherein

25 said manipulation request is obtained by sensing an operated amount as to an accelerator manipulation and a brake manipulation by a driver.

11. The vehicle integrated control system according to any one of claims 1 to 8,  
25 wherein

25 said manipulation request is obtained by sensing an operated amount as to an accelerator manipulation, a brake manipulation, and a transmission manipulation by a driver.

12. A vehicle integrated control system comprising:

a plurality of control units (PT, ECB, STR) controlling a running state of a vehicle based on a manipulation request; and

5 a processing unit generating information to be used at said control unit (PT, ECB, STR) and providing the generated information to each said control unit (PT, ECB, STR); wherein

10 said processing unit includes calculation means for calculating information related to a control target to manipulate an actuator set in correspondence with each said control unit (PT, ECB, STR) based on environmental information around said vehicle and said manipulation request, and calculating information for allotting a driving force and a braking force in said control unit (PT, ECB, STR), based on information related to said calculated control target.

15 13. The vehicle integrated control system according to claim 12, wherein  
said calculation means includes means for calculating said information with priority being placed on a time for attaining said control target.

20 14. The vehicle integrated control system according to claim 12, wherein  
said calculation means includes means for calculating said information with priority being placed on drivability.

25 15. The vehicle integrated control system according to claim 12, wherein  
said calculation means includes means for calculating said information with priority being placed on energy efficiency of said vehicle.

16. The vehicle integrated control system according to claim 12, wherein  
said environmental information represents information on surroundings of the

vehicle at present.

17. The vehicle integrated control system according to claim 12, wherein  
said environmental information represents information on surroundings of the  
5 vehicle in future.

18. The vehicle integrated control system according to claim 12, wherein  
said environmental information represents information on an  
acceleration/deceleration state of said vehicle.

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19. The vehicle integrated control system according to claim 12, wherein  
said environmental information represents information sensed by a navigation  
device.

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20. The vehicle integrated control system according to claim 12, wherein  
said environmental information represents information sensed by a radar device.

21. The vehicle integrated control system according to any one of claims 12 to  
19, wherein

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said manipulation request is obtained by sensing an operated amount as to an  
accelerator manipulation and a brake manipulation by a driver.

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22. The vehicle integrated control system according to any one of claims 12 to  
19, wherein  
said manipulation request is obtained by sensing an operated amount as to an  
accelerator manipulation, a brake manipulation, and a transmission manipulation by a  
driver.